High-end Ceiling Conference Microphone AIMIC-MC10



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CATALOG

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MC10 Scene Image

Product Introduction

The MC10 is a high-end ceiling-mounted conference microphone from AISpeech that integrates an omnidirectional microphone array of up to 128 units, providing 16 individually assignable pickup zones for fine-grained pickup configurations. With Dante digital audio technology to ensure stable audio transmission and wide compatibility, MC10 has built-in AI algorithms to provide high- definition noise reduction, de-reverberation, feedback suppression, automatic gain control , which effectively improves the efficiency of the meeting. MC10 is suitable for all kinds of ceiling mounting, PoE+ power supply to meet the needs of all kinds of meeting.

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Main Features

Array & Coverage

MC10 integrates a 128 omnidirectional Mic array. A single device offers 8 m effective pickup radius. With unlimited cascading, you can scale the number of microphones to the room size, delivering seamless and uniform coverage for spaces of all sizes.

Pickup Zones & Fine Tuning

The MC10 provides 16 assignable zones (8 for Teleconference and 8 for Voice Lift). A visual console allows for customization of each zone's location, size, type, and audio parameters, enabling scene-specific configurations.

Sampling & Fidelity

With a 48 kHz sample rate and 24-bit depth, the MC10 preserves audio detail and dynamic range to deliver clear, natural speech and ambience. This high-fidelity performance meets professional-grade conferencing audio requirements.

AI Processing & Robustness

Trained on hundreds of thousands of hours of noisy audio, the ClearSpeakAI algorithm integrates high-definition noise reduction, dereverberation, AGC, and feedback suppression. This ensures clear, stable speech across various room types and acoustics.

Modes & Outputs

The system supports modes like multi-party discussion and zone muting. Remote conferencing and local reinforcement are handled on separate channels, allowing you to independently tune gain, EQ, and dynamics for pure remote, pure Voice Lift, or hybrid meetings.

Dante Ecosystem & Deployment

The MC10 utilizes Dante networking and pairs with the DP88 processor, DC20 PoE+ loudspeaker, and DU11 Dante adapter for a complete system. End-to-end 48 kHz transport enhances stability and scalability while simplifying cabling and deployment.

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Product Specifications

Function	Specification
Basic	• Product color: White • Product size：597mm*597mm*53.5mm • Package size：680mm*680mm*160mm • Package net weight：<5KG • Power supply: PoE+ powered • Installation: Suspension
Audio performance	• Available pickup zones: 16 (8 Teleconference + 8 Voice Lift) • Sampling rate: 48kHz • Pickup area type: Configurable • Maximum background noise suppression: 35dB • AI noise reduction suppression: Support • AI reverb suppression: Support • AI whistling suppression: Support • AI echo cancellation: Support • AI full duplex: Support • Mix channels: Support • Smart mix: Support • Latency (with ClearSpeakAI) ：25ms • Latency (without ClearSpeakAI) ：4ms • Voice lift gain: >12 dB
Microphone spec	• Microphone type: 128-mic MEMS array • Microphone sensitivity: -38 dBV/94 dB SPL @ 1 kHz • Microphone frequency Response: 20 Hz – 20 kHz • Dynamic range: 84 dBA • Maximum SPL: 104 dB SPL • Signal-to-Noise ratio: 73.9dB@1kHz, 94dB SPL A-Weighted • Device sensitivity: -10.22 dBFS/Pa @ 1 kHz • Device frequency response: 100 Hz – 15 kHz

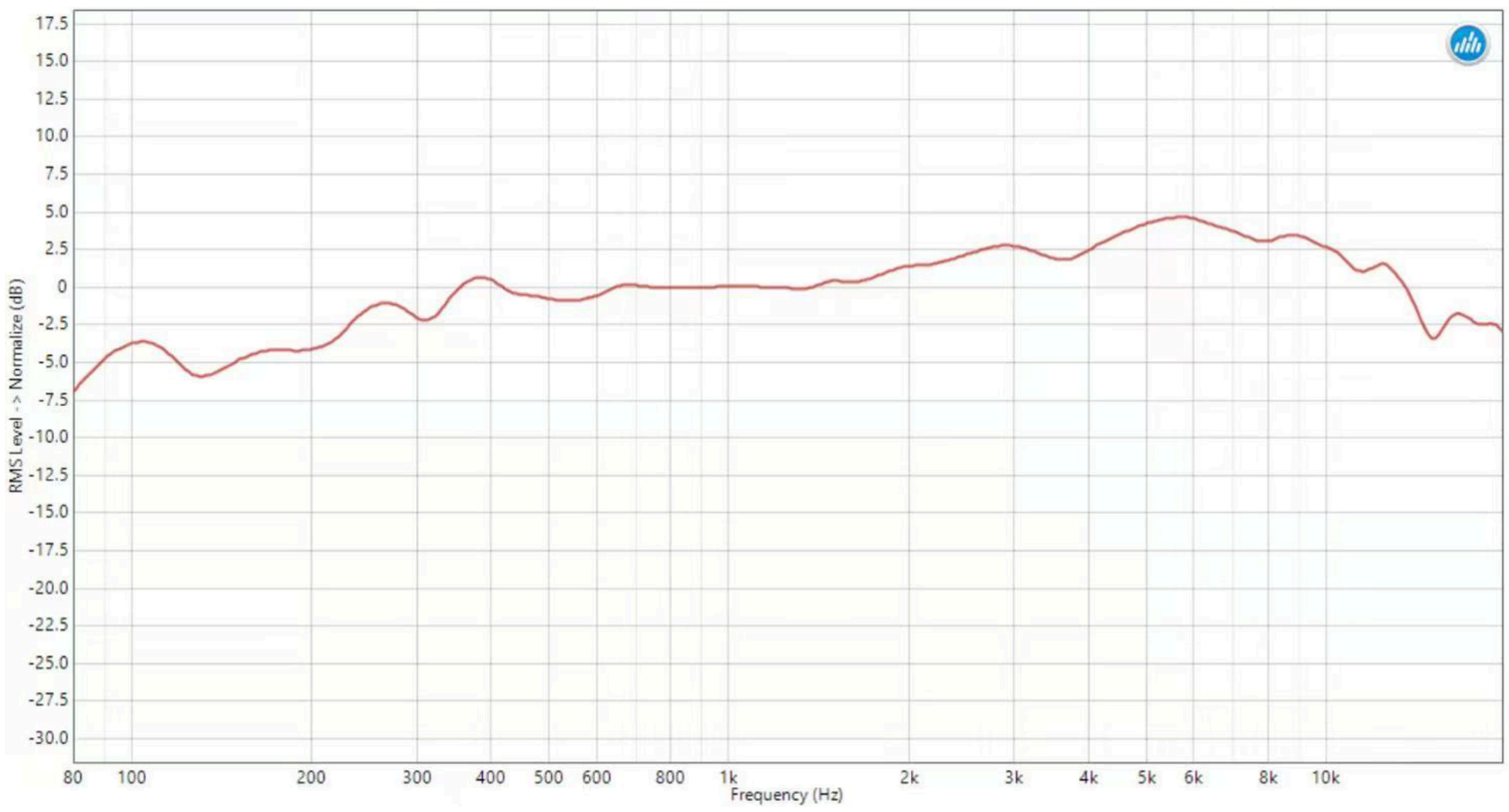
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Product Specifications

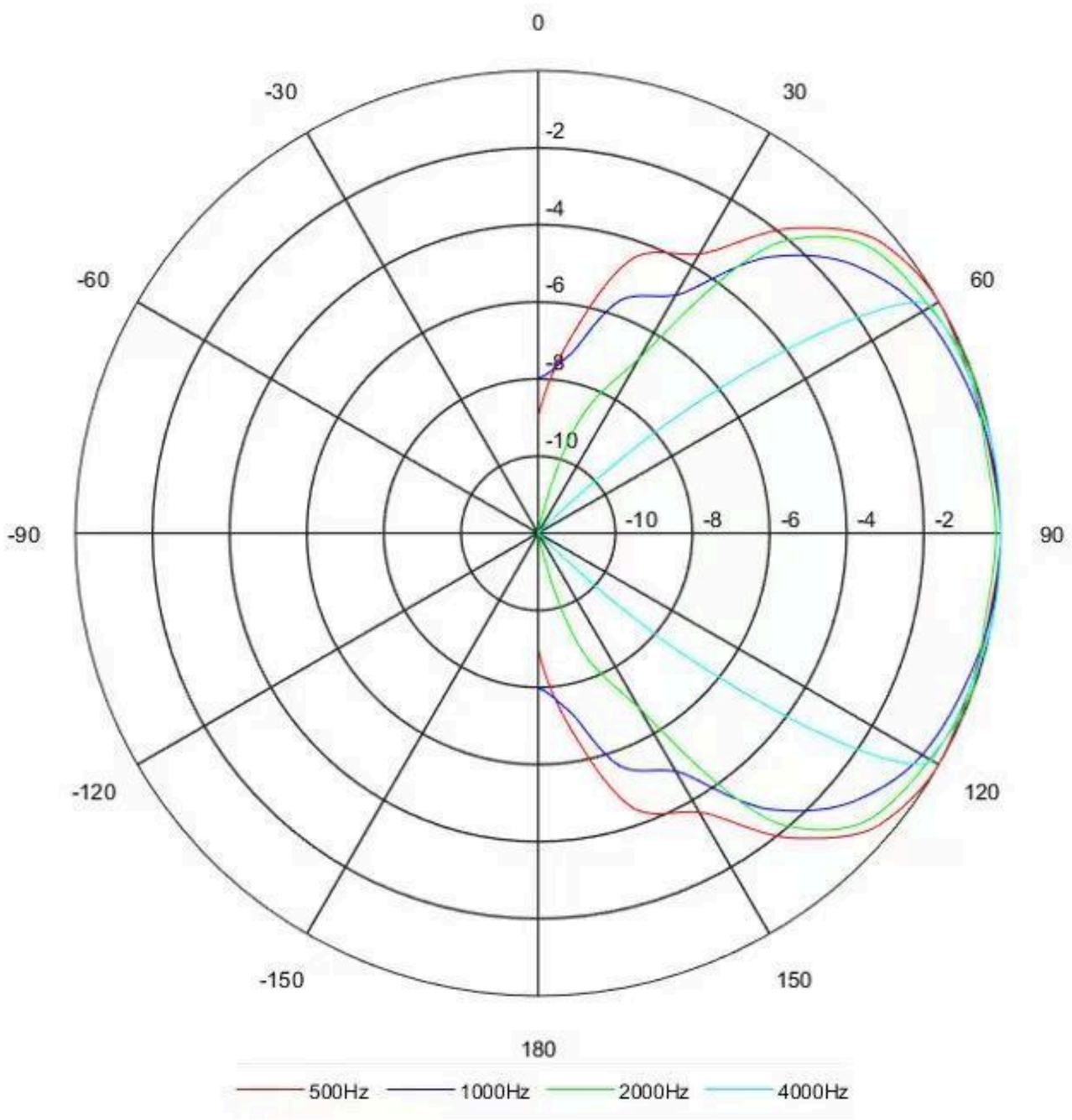
Function	Specification
Dante audio	• Dante audio: Support • Remote conference channel: 1 • Local reinforcement channel: 1
Interfaces&Button	• Dante/PoE port: 1 • USB type-C: 1 • RESET button: 1
Cascade function	• Cascade quantity: Unlimited • Cascade method: Dante Audio /PoE Network cable cascade
Other	• Operating temperature: 0°C to 40°C • Storage temperature: -20°C to +70°C • Operating / Storage humidity: 20% to 95% RH • Power consumption: 12W • Certifications：FCC、CE

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Audio Performance



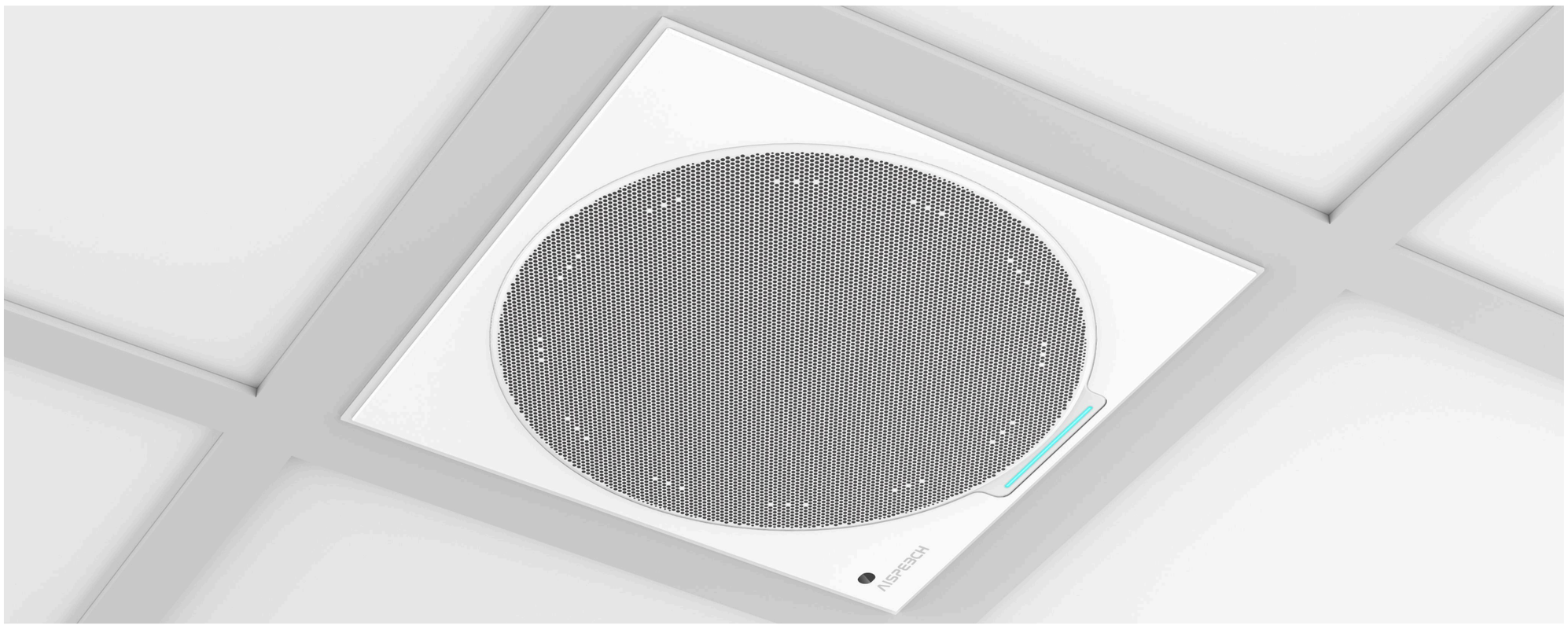
Frequency Response Curve



Polar Diagram

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Installation methods



Method 1: Ceiling-mounted (flush-mounted / surface-mounted)



Method 2: Wire rope suspended under the ceiling



Method 3: Suspended rod installation below the ceiling

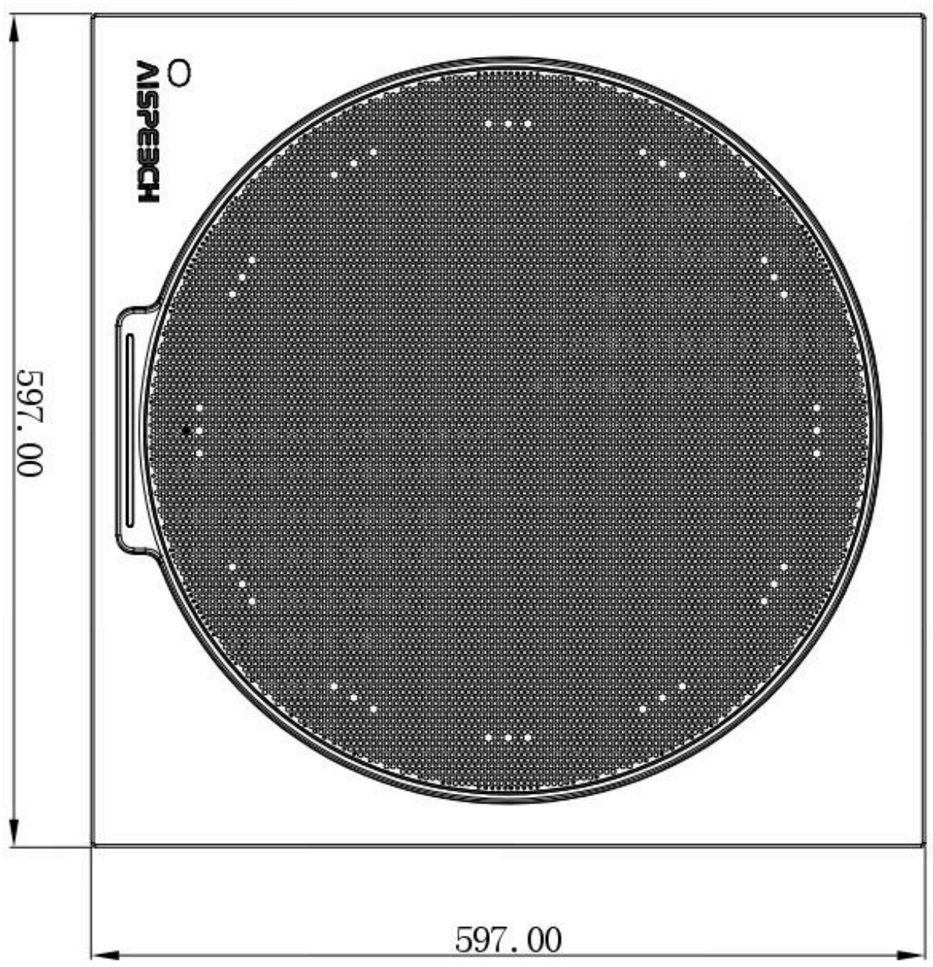
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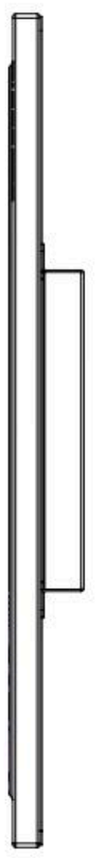
External Dimension

Unit: mm

Top View



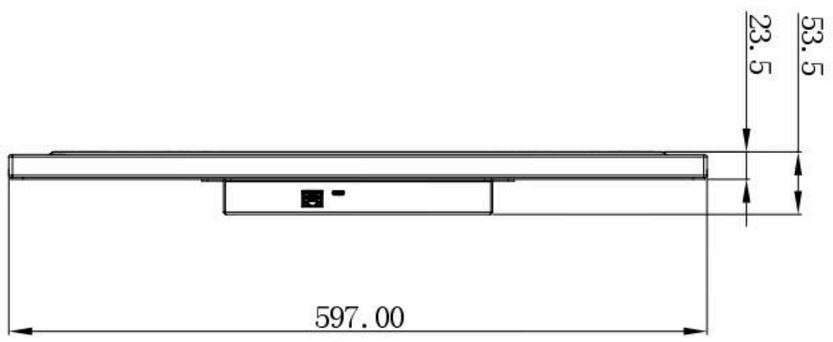


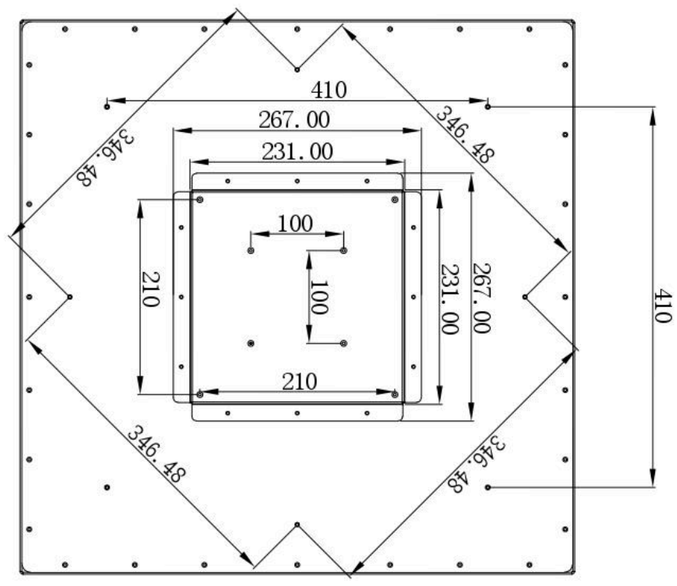


Left View

Front View

Right View





Upward View

Rear View

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Selection Guide

This section provides selection guidance for this product, enabling quick configuration of complete conference audio-visual solutions.

Category	Model
DSP	• AIDAP-DP88 • AIDAP-DP44
Camera	• AIVIS-C60 • AIVIS-C40T
AI Box	• AIVIS-MT100
Adapter	• AIDIO-DU44 • AIDIO-DU11
Desk Button	• AIMIC-B100

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